		Pushing the En	velope		
		Science Revise			
		Learning Stand	dards		
Washington Science	Revised June 2010				
Grades 4-5					
Activity/Lesson	State	Standards			
Physics and Math (pgs. 43-63)	WA	SCI.4-5.4.4-5 PS3B.1	Draw and label diagrams showing several ways that energy can be transferred from one place to another (e.g., sound energy passing through air, electrical energy through a wire, heat energy conducted through a frying pan, light energy through space).		
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		Pushing the En	velope		
		Science Revise			
		Learning Stand			
Washington Science	Revised June 2010				
Grades 6-8					
Activity/Lesson	State	Standards			
Chemistry (pgs. 25-41)	WA	SCI.6-8.4.6-8 PS2B.2	Demonstrate that the properties of a compound are different from the properties of the reactants from which it was formed.		
Chemistry (pgs. 25-41)	WA	SCI.6-8.4.6-8 PS2F.1	Apply the concept of conservation of mass to correctly predict changes in mass before and after chemical reactions, including reactions that occur in closed containers, and reactions that occur in open containers where a gas is given off.		
Physics and Math (pgs. 43-63)	WA	SCI.6-8.4.6-8 PS1C.1	Determine whether forces on an object are balanced or unbalanced and justify with observational evidence.		
Physics and Math		SCI.6-8.4.6-8	Given a description of forces on an object,		
(pgs. 43-63) Physics and Math	WA	PS1C.2 SCI.6-8.4.6-8	predict the object's motion. Given two different masses that receive the same unbalanced force, predict which will move		
(pgs. 43-63)	WA	PS1D.1	more quickly.		
Rocket Activity (pgs. 69-75)	WA	SCI.6-8.4.6-8 PS1C.1	Determine whether forces on an object are balanced or unbalanced and justify with observational evidence.		
Rocket Activity (pgs. 69-75)	WA	SCI.6-8.4.6-8 PS1C.2	Given a description of forces on an object, predict the object's motion.		
Rocket Activity (pgs. 69-75)	WA	SCI.6-8.4.6-8 PS1D.1	Given two different masses that receive the same unbalanced force, predict which will move more quickly.		
		 Pushing the En	•		
2009 Science Revised June 2010 Learning Standards					
Washington Science	Revised June 2010				
Grades 9-12	1.57.550 54115 2516				
Activity/Lesson	State	Standards			

			Calculate the acceleration of an object, given
			the object's mass and the net force on the
Types of Engines (SCI.9-12.4.9-11	object, using Newton's Second Law of Motion
pgs. 11-23)	WA	PS1D.2	(F=ma).
			Give examples of chemical reactions that either
			release or acquire energy and result in the
			formation of new substances (e.g., burning of
Chemistry (pgs. 25-		SCI.9-12.4.9-11	fossil fuels releases large amounts of energy in
41)	WA	PS2G.3	the form of heat).
			Given specific scenarios, compare the motion of
			an object acted on by balanced forces with the
Physics and Math		SCI.9-12.4.9-11	motion of an object acted on by unbalanced
(pgs. 43-63)	WA	PS1C.1	forces.
Physics and Math		SCI.9-12.4.9-11	Predict how objects of different masses will
(pgs. 43-63)	WA	PS1D.1	accelerate when subjected to the same force.
			Calculate the acceleration of an object, given
			the object's mass and the net force on the
Physics and Math		SCI.9-12.4.9-11	object, using Newton's Second Law of Motion
(pgs. 43-63)	WA	PS1D.2	(F=ma).
			Illustrate with everyday examples that for every
			action there is an equal and opposite reaction
Physics and Math		SCI.9-12.4.9-11	(e.g., a person exerts the same force on the
(pgs. 43-63)	WA	PS1E.1	Earth as the Earth exerts on the person).
			Given specific scenarios, compare the motion of
			an object acted on by balanced forces with the
Rocket Activity (pgs.		SCI.9-12.4.9-11	motion of an object acted on by unbalanced
69-75)	WA	PS1C.1	forces.
Rocket Activity (pgs.		SCI.9-12.4.9-11	Predict how objects of different masses will
69-75)	WA	PS1D.1	accelerate when subjected to the same force.
			Calculate the acceleration of an object, given
			the object's mass and the net force on the
Rocket Activity (pgs.		SCI.9-12.4.9-11	object, using Newton's Second Law of Motion
69-75)	WA	PS1D.2	(F=ma).